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INFORMATION REPORT

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SUPPLEMENT TO REPORT NO.

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Research is being conducted into the following subjects under the overall direction of Professor Hauffe in the Institute for Physical Chemistry (Physikalisch-Chemisches Institut) at Greifswald University:

a. Semiconductors of mixed oxides.

1) The systems TiO_2 + GaO_3, Cr_2O_3 and WO_3.

2) The systems $ZnWO_4$ + Li_2O and Cr_2O_3:$NiWO_4$ + Li_2O and Cr_2O_3.

3) The systems ZnO_2 + In_2O_3.

4) Development of a control semiconductor (Regelhalbleiter) for the Dralowid Werk, Teltow, VVB RFT.

b. Measurement of adsorption by mixed oxides for the purpose of explaining the mechanism of adsorption.

c. Investigations into the stationary condition of mixed oxide catalysts in heterogeneous reactions.

d. Determination of the emission of electrons from hot mixed oxide cathodes.

e. 1) Investigation of the mechanism of oxidation of iron to FeO in mixtures of CO and CO_2 at high temperatures.

2) Investigation of the effect of the presence of other vaporized metallic oxides on the oxidation of metals and alloys of metals.

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f. Investigation of the mechanism of the reduction of oxides in the presence of other oxides.

g. Investigation of the mechanism of the formation of electro-chemical surface layers.

h. Further development of the theory of diffusion.

i. Investigation of electro-chemical passivity.